

TI Preparation of octadecyl acrylate/maleic anhydride/styrene copolymer AAMAS as pour point depressant
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CS Petroleum Eng. Dept., Petroleum University
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AB An octadecyl acrylate/maleic anhydride/styrene (OAMAS) copolymer was synthesized through organic solution copolymerization, to be used as pour point depressant/viscosity reducer for Shengli paraffinic crude oil. The proper ratio of monomers, initiator use level, and reaction time were found to obtain copolymers with highest pour point depressing and viscosity reducing capacities. The waxing inhibition and pour point and viscosity reduction of Shengli crude were achieved by using OAMAS. The pour point of the crude was lowered by 15°C and its apparent viscosity at 20°C - by 88% when 300 ppm copolymer OAMAS was added at 60°C. Spectrum, 2 tables, 5 graphs, and 10 references